

APPENDIX A

REFERENCES AND BIBLIOGRAPHY

A-1. References. Department of the Army, Corps of Engineers.

1. ER 1110-1-1801
2. ER 1110-2-1806
3. ER 1110-2-2901
4. EM 385-1-1
5. EM 1110-1-1802
6. EM 1110-1-1804
7. EM 1110-2-1611
8. EM 1110-2-1901
9. EM 1110-2-1903
10. EM 1110-2-1904
11. EM 1110-2-1905
12. EM 1110-2-1906
13. EM 1110-2-1907
14. EM 1110-2-1908
15. EM 1110-2-2200
- ~~16. EM 1110-2-2501~~
17. EM 1110-2-2502
18. EM 1110-2-2901
19. EM 1110-2-2906
20. 'EM 1110-2-3506
21. EM 1110-2-4300

A-2, Bibliography. Government and other publications.

1. TM 5-818-5
2. TM 5-818-6
3. ETL 1110-2-256
4. American Society for Testing and Materials (ASTM), Standards A328, Steel Sheet Piling; Standard A572, High Strength, Low-Alloy, Columbian Vanadium Steels of Structural Quality; Standards A690, High Strength, Low-Alloy Steel H-Piles and Sheet Piling for Use in Marine Environment.
5. Anderson, P. 1956. Substructure Analysis and Design, Ronald Press, New York, New York.
6. Applied Technology Council. 1978 (Jun). "Tentative Provisions for the Development of Seismic Regulation for Buildings," ATC Publication 3-06, Palo Alto, California.
7. Belz, C. A. 1970. "Cellular Structure Design Methods," Design and Installation of Pile Foundations and Cellular Structures, Envo Publishing Co., Inc., Lehigh Valley, Pennsylvania,
8. Bjerrum, L. 1967 (Sep). "The Third Terzaghi Lecture: Progressive Failure in Slopes of Overconsolidated Plastic Clay and Clay Shales," Journal, Soil Mechanics and Foundation Division, New York, New York, American Society of Civil Engineers, Vol 98, No. SM 5, Part 1.
9. Bjerrum, L. 1972 (Jun). "Embankments on Soft Ground," State-of-the-Art Paper, Proceedings, Specialty Conference on Performance of Earth and Earth-Supported Structures, American Society of Civil Engineers, Purdue University, Lafayette, Ind., Vol II, pp 1-54. Published by American Society of Civil Engineers, New York, New York.
10. Bowles, J. E. 1968. "Foundation Analysis and Design," McGraw-Hill Book Co., Inc., New York, New York.
11. Bowles, J. E. 1977. Second Edition.
12. Bowles, J. E. 1982. Third Edition.
13. Broms, B. B. 1975. "Landslides," Foundation Engineering Handbook, Chapter 11, Van Nostrand Reinhold Co., New York, New York.
14. Burwell, E. B., Jr., and Moneymaker, B. C. 1967. "Geology in Dam Construction," Application of Geology to Engineering Practice, Geological Society of America, New York, New York, Berkey Vol, pp 11-43.

15. Burwell, E. B., Jr., and Roberts, G. D. 1967. "The Geologist in the Engineering Organization," Application of Geology to Engineering Practice, Geological Society of America, New York, New York, Berkey Vol, pp 1-9.
16. Cedergren, H. R. 1977. "Seepage Principles" and "Structural Drainage," Seepage, Drainage, and Flow Nets, John Wiley and Sons, Inc., New York, New York.
17. Christian, J. T., and Swiger, W. F. 1975 (Nov). "Statistic of Liquefaction and SPT Results," Journal, Geotechnical Engineering Division, American Society of Civil Engineers, New York, New York, Vol 101, GT11, pp 1135-1150.
18. Clough, G. W. and Hansen, L. A. 1977. "A Finite Element Study of the Behavior of the Willow Island Cofferdam," Technical Report CE-218, Department of Civil Engineering, Stanford University.
19. Cummings, E. M. 1957 (Sep). "Cellular Cofferdams and Docks," Journal of the Waterways and Harbors Division, American Society of Civil Engineers, New York, New York.
20. D'Appolonia, E., D'Appolonia, D. J., and Ellison, R. D. 1975. "Drilled Piers," Foundation Engineering Handbook, Van Nostrand Reinhold, Co., New York, New York.
21. Davisson, M. T. and Salley, J. R. 1972. "Settlement Histories of Four Large Tanks on Sand," Proceedings of the Specialty Conference on Performance of Earth and Earth-Supported Structures, Purdue University, Lafayette, Indiana.
22. Deere, D. U. 1974. "Geological Considerations," Rock Mechanics in Engineering Practice, John Wiley and Sons, Inc., New York, New York, pp 1-20.
23. Department of the Army, Corps of Engineers. 1973. An Analysis of Cellular Sheet Pile Cofferdam Failures, Ohio River Division, Cincinnati, Ohio.
24. Department of the Army, Corps of Engineers, St. Louis District. 1983 (Nov). Lock & Dam 26 (Replacement) Mississippi River, Alton, Illinois, Summary Report, Instrumentation Data Analysis and Finite Element Studies for First Stage Cofferdam, Shannon & Wilson, Inc.
25. Department of the Interior, Bureau of Reclamation. 1965. Design of Small Dams.
26. Department of Transportation, Federal Highway Administration. 1977. Guidelines for Cone Penetration Tests: Performance and Design, FHWA Report TS-78-209 and Appendix II.

27. Dismuke, T. D. 1975. "Cellular Structures and Braced Excavations," Foundation Engineering Handbook, Van Nostrand Reinhold, Co., New York, New York.
28. Dunnicliff, John. 1982 (Apr). "Systematic Approach to Planning Monitoring Programs," 6th Annual Short Course on Field Instrumentation of Soil & Rock, University of Missouri-Rolla, Rolla, Missouri.
29. Esrig, M. I. 1970. "Stability of Cellular Cofferdams Against Vertical Shear," Soil Mechanics and Foundation Division, American Society of Civil Engineers, New York, New York, Vol 96, No. SM 6, pp 1853-1862.
30. Fetzer, C. A. 1975. "Progressive Failure in Shale (Cannelton Dam Stage I, Cofferdam Failure)," Ohio River Valley Seminar VI, Ft. Mitchell, Kentucky.
31. Gaddie, T. and Gray, H. 1976 (Aug). "Cellular Sheet Pile Structures," Corps-Wide Conference on Computer-Aided Design in Structural Engineering, U. S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.
32. Geokon, Inc. 1983. Brochure, West Lebanon, New Hampshire.
33. Goodman, R. E. 1980. "Applications of Rock Mechanics to Foundation Engineering," Introduction to Rock Mechanics, John Wiley and Sons, New York, New York.
34. Gould, James P., and Dunnicliff, John C. 1982 (Apr). "Accuracy of Field Deformation Measurement," 6th Annual Short Course on Field Instrumentation of Soil & Rock, University of Missouri-Rolla, Rolla, Missouri.
35. Hansen, J. B. 1953. Earth Pressure Calculations, The Danish Technical Press, The Institution of Danish Civil Engineers, Copenhagen.
36. Hansen, J. B. 1961. "Stability and Foundation Problems," Pressure Calculation, The Danish Technical Press, The Institution of Danish Civil Engineers, Second Edition, Copenhagen.
37. Hansen, L. A. and Clough, G. W. 1982. "Finite Element Analyses of Cofferdam Behavior," Proceedings, 4th International Conference on Numerical Methods in Geomechanics, Vol 2, pp 899-906, Edmonton, Canada.
38. "How Contractors Brace Steel Sheet-Pile Cofferdams," Construction Methods and Equipment, McGraw Hill, New York, New York (1962).
39. Hvorslev, M. J. 1948 (Nov). "Subsurface Exploration and Sampling of Soils for Civil Engineering Purposes," U. S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.
40. Irad Goge. 1983. Brochure, A Division of Crear Products, Inc., Lebanon, New Hampshire.

41. Jumikis, A. R. 1971. "Vertical Stress Tables for Uniformly Distributed Loads on Soil," Engineering Research Publication No. 52, Rutgers University, New Brunswick, New Jersey.
42. Kittisatra, L. 1976 (Jun). "Finite Element Analysis of Circular Cell Bulkheads," Ph. D. Thesis, Oregon State University, Corvallis, Oregon.
43. Lacroix, Y., Esrig, M. I., and Luscher, U. 1970 (Jun). "Design, Construction, and Performance of Cellular Cofferdams," "Lateral Stresses in the Ground and Earth Retaining Structures," Journal, Soil Mechanics and Foundation Division, American Society of Civil Engineers, Specialty Conference, Cornell University, Ithaca, New York, pp 271-328.
44. Leonards, G. A. 1962. "Engineering Properties of Soils," Foundation Engineering, McGraw-Hill Book Co., Inc., New York, New York.
45. Lincoln, Frank L. 1963 (Oct). "Reconstruction of Dry Dock No. 3 at the Portsmouth Naval Shipyard (Part Two)," Journal of the Boston Society of Civil Engineers, Boston, MA, Vol 50, No. 4.
46. Maitland, J. K. 1977. "Behavior of Cellular Bulkheads in Deep Sands," Ph. D. Thesis submitted at Oregon State University, Corvallis, Oregon.
47. Maitland, J. K. and Schroeder, W. L. 1979 (Jul). "Model Study of Circular Sheet Pile Cells," American Society of Civil Engineers, GT 7, New York, New York.
48. Mansur, C. I. and Kaufman, R. I. 1962. "Dewatering," Foundation Engineering, G. A. Leonards, McGraw-Hill Book Co., Inc., New York, New York.
49. Matlock, H. and Reese, L. C. 1960. "Generalized Solutions for Laterally Loaded Piles," Journal, Soil Mechanics and Foundations Division, American Society of Civil Engineers, Vol 86, No. SM5, pp 63-91.
50. Naval Facilities Engineering Command. 1971. Soil Mechanics Foundations, and Earth Structures, Department of the Navy, Design Manual DM-7, Chapter 3, Washington, DC.
51. Naval Facilities Engineering Command. 1971. Chapter 8.
52. Naval Facilities Engineering Command. 1971. Chapter 10.
53. Neghabat, Farrokh. 1970 (Jun). "Optimization in Cofferdam Design," Ph. D. Dissertation in Applied Science submitted to the University of Delaware, Newark, Delaware.
54. Office of Emergency Preparedness, Executive Office of the President. 1972. "Disaster Preparedness, A Report to the Congress by the Office of Emergency Preparedness," Washington, DC.

55. Ovesen, N. K. 1962. Cellular Cofferdams Calculation Method and Model Tests, Bulletin 14, Danish Geotechnical Institute, Copenhagen.
56. Patterson, John H. 1970. "Installation Techniques for Cellular Structures," Design and Installation of Pile Foundations and Cellular Structures, Envo Publishing Co., Inc., Lehigh Valley, Pennsylvania.
57. Peck, R. B., Hanson, W. E., and Thornburn, T. H. 1974. "Techniques of Subsurface Investigation," Foundation Engineering, John Wiley & Sons, Inc., New York, New York.
58. Roberts, G. D. 1964. "Investigation Versus Exploration," Engineering Geology, Bulletin of the Association of Engineering Geologists, Vol 1, No. 2, pp 37-53.
59. Roberts, G. D. 1970. "Soil Formation and Engineering Applications," Engineering Geology, Bulletin of the Association of Engineering Geologists, Vol 7, Nos. 1 & 2, pp 87-105.
60. Rossow, M. P. 1980 (Apr). "Finite Elements for Generalized Plane Strain," American Institute of Aeronautics and Astronautics Journal, Vol 19, No. 4.
61. Rossow, M. P. "Notes on Finite Element Modeling of a Cellular Cofferdam," U. S. Army Engineer District, St. Louis, Structural Section, Sep 1981 (Revised Jan 1982).
62. Sanglerat, G. 1972. Penetrometer and Soil Exploration, Elsevier Publishing Company, Amsterdam, The Netherlands.
63. Schmertmann, J. H. 1970 (May). "Static Cone to Compute Static Settlement Over Sand," Journal, Soil Mechanics and Foundation Division, American Society of Civil Engineers, New York, New York.
64. Schmertmann, J. H., Hartman, J. P., and Brown, P. R. 1978 (Aug). "Improved Strain Influence Factor Diagrams," Technical Note, Geotechnical Engineering Division, American Society of Civil Engineers, New York, New York.
65. Schroeder, W. L., Marker, Dennis K., and Khuayjarernpanishk, Thanasorn. 1977 (Mar). "Performance of a Cellular Wharf," Journal of Geotechnical Engineering Division, American Society of Civil Engineers, Vol 103, GT 3, pp 153-168.
66. Schroeder, W. L. and Maitland, J. K. 1979 (Jul). "Cellular Bulkheads and Cofferdams," Journal, Geotechnical Engineering Division, American Society of Civil Engineers, New York, New York, Vol 105, GT 7, Paper 14713, pp 823-837.

67. Seed, H. B. and Idriss, I. M. 1971 (Sep). "Simplified Procedure for Evaluating Soil Liquefaction Potential," Journal, Soil Mechanics and Foundation Division, American Society of Civil Engineers, New York, New York, Vol 97, SM 9, pp 1249-1273.
68. Sellers, Barrie and Dunnicliff, John. 1982 (Apr). "Measurement of Load and Strain in Structural Members," 6th Annual Short Course on Field Instrumentation of Soil and Rock, University of Missouri-Rolla, Rolla, Missouri.
69. Shannon and Wilson, Inc. 1982 (Sep). "Final Report, Tasks 3.2, 3.3, and 3.4, Finite Element Models," Report on Lock and Dam No. 26 (Replacement) for U. S. Army Engineer District, St. Louis.
70. Slope Indicator Company. 1984. Brochure, Seattle, Washington.
71. Sorota, Max D., and Kinner, Edward B. 1981 (Dec). "Cellular Cofferdams for Trident Drydock: Design," American Society of Civil Engineers, New York, New York, GT 12.
72. Sorota, Max D., Kinner, Edward B., and Haley, Mark, X. 1981 (Dec). "Cellular Cofferdam for Trident Drydock: Performance," Journal, Geotechnical Engineering Division, American Society of Civil Engineers, New York, New York, Vol 107, No. GT 12, pp 1657-1676.
73. Sovinc, I. 1961. "Stresses and Displacements in a Limited Layer of Uniform Thickness, Resting on a Rigid Base, and Subjected to a Uniformly Distributed Flexible Load of Rectangular Shape," Proceedings, Fifth International Conference on Soil Mechanics and Foundation Engineering, Vol 1, p 823, Paris, France.
74. Sowers, G. F. 1962. "Shallow Foundations," Foundation Engineering, McGraw-Hill Book Co., Inc., New York, New York.
75. Sowers, G. F. and Royster, D. L. 1978. "Field Investigation," Land-slides: Analysis and Control, Transportation Research Board, Special Report 176, National Academy of Science, Washington, DC, pp 81-111.
76. Swatek, E. P., Jr. 1967 (Aug). "Cellular Cofferdam Design and Practice," Journal, Waterways and Harbors Division, American Society of Civil Engineers, New York, New York, WW 3.
77. Swatek, E. P., Jr. 1970. "Summary - Cellular Structure Design and Installation," Design and Installation of Pile Foundations and Cellular Structures," Envo Publishing Co., Inc., Lehigh Valley, Pennsylvania.
78. TVA Division of Engineering and Construction. 1966 (Nov). "Steel Sheet Piling Cellular Cofferdams on Rock," Tennessee Valley Authority, Office of Chief of Engineers, Technical Monograph No. 75, Vol 1, Knoxville, Tennessee.

79. Taylor, D. W. 1948. "Permeability" and "Seepage," Fundamentals of Soil Mechanics, John Wiley and Sons, Inc., New York, New York.
80. Terzaghi, K. 1943. "Bearing Capacity," Theoretical Soil Mechanics, John Wiley and Sons, Inc., New York, New York.
81. Terzaghi, K. 1945. "Stability and Stiffness of Cellular Cofferdams," American Society of Civil Engineers, Transactions, Vol 110, Paper No. 2253, pp 1083-1202.
82. Terzaghi, K. and Peck, R. B. 1967. Soils Mechanics in Engineering Practice, Second Edition, John Wiley and Sons, Inc., New York, New York.
83. Thorburn, S. H. 1966. "Large Diameter Piles Founded in Bedrock," Proceedings of Symposium on Large Bored Piles, Institute of Civil Engineers, London.
84. Underwood, L. B. 1972. "The Role of the Engineering Geologist in the Instrumentation Program," Engineering Geology, Bulletin of the Association of Engineering Geologists, Vol 9, No. 3.
85. United States Steel Corporation. 1972. "Cellular Cofferdams," US Steel Sheet Piling Design Manual, Pittsburgh, Pennsylvania.
86. United States Steel Corporation. 1975. "Cellular Cofferdams," US Steel Sheet Piling Design Manual, Pittsburgh, Pennsylvania.
87. United States Steel Corporation. 1972. Steel Sheet Piling Handbook, Pittsburgh, Pennsylvania.
88. United States Steel Corporation. 1980. Steel Sheet Piling Handbook, Pittsburgh, Pennsylvania.
89. U. S. Army Engineer Waterways Experiment Station, CE. 1953 (Mar). Unified Soil Classification System, Technical Memorandum 3-357, Vol 1, Vicksburg, Mississippi.
90. U. S. Army Engineer Waterways Experiment Station, CE. Rock Testing Handbook, RTH 203-80, Vicksburg, Mississippi.
91. U. S. Army Engineer Waterways Experiment Station, CE. Rock Testing Handbook, RTH 381-80, Vicksburg, Mississippi.
92. White, Ardis, Cheney, James A., and Duke, C. Marlin. 1961 (Aug). "Field Study of a Cellular Bulkhead," Journal, Soil Mechanics and Foundation Division, American Society of Civil Engineers, New York, New York, Vol 87, SM 4.
93. White, L., and Prentis, E. A. 1950. Cofferdams, Columbia University Press, New York, New York.

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94. White, R. E. 1962. "Caissons and Cofferdams," Foundation Engineering, McGraw-Hill Book Co., New York, New York.
95. Wilson, Stanley D., and Mikkelsen, Erik P. 1978. "Field Instrumentation," Transportation Research Board Special Report 176, Landslides: Analysis and Control, National Academy of Science.
96. Woodward, R. J., Gardner, W. S., and Greer, D. M. 1972. Drilled Pier Foundations, McGraw-Hill Book Co., Inc., New York, New York.
97. Wu, T. H. 1966. "Problems of Stability," Soil Mechanics, Section 10.9, Allyn and Bacon, Inc., Boston, Massachusetts.
98. Zaruba, Q. and Mencl, V. 1976. Engineering Geology, American Elsevier Publishing Co., Inc., New York, New York.